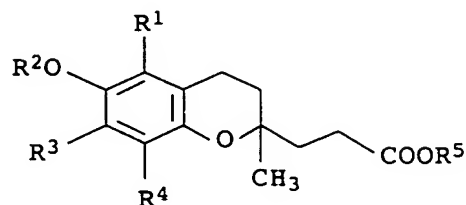


We claim:

1. The use of chroman derivatives of the formula I,

5

10



- 15 in which the substituents, independently of one another, have the following meanings:

R¹ is hydrogen, C₁-C₁₂-alkyl,

- 20 R² is hydrogen, C₁-C₁₂-acyl,

R³ and R⁴

are hydrogen, C₁-C₁₂-alkyl,

25

R⁵ is hydrogen, C₁-C₁₂-alkyl, aryl

in cosmetic or dermatological preparations.

- 30 2. The use of chroman derivatives as claimed in claim 1, in which

R¹ is hydrogen, C₁-C₃-alkyl,

- 35 R² is hydrogen, C₁-C₃-acyl,

R³ and R⁴

are C₁-C₃-alkyl and

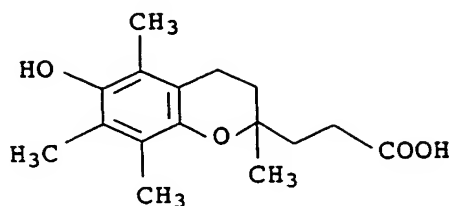
40

R⁵ is hydrogen, C₁-C₃-alkyl.

3. The use of a chroman derivative as claimed in claim 1 having the formula Ia

45

28



Ia.

5

Sul
10

15

20

25

30

35

40

45

4. The use as claimed in any of claims 1 to 3 for prophylaxis against aging processes of the human skin.

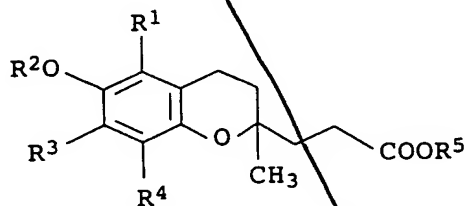
5. The use as claimed in claim 4 for prophylaxis against dry skin, wrinkle formation and/or pigment disorders.

6. The use as claimed in any of claims 1 to 3 for prophylaxis against aging processes of human hair.

7. The use as claimed in any of claims 1 to 6, wherein at least one of the compounds of the formula I is present in an effective content in cosmetic preparations.

8. The use as claimed in claim 7, wherein at least one of the compounds of the formula I is present in concentrations of from 0.01 to 30% by weight, based on the total amount of the cosmetic preparation.

9. A cosmetic preparation for protecting the human epidermis or human hair, which comprises, in a cosmetically suitable carrier, a cosmetically effective amount of at least one of the compounds of the formula I

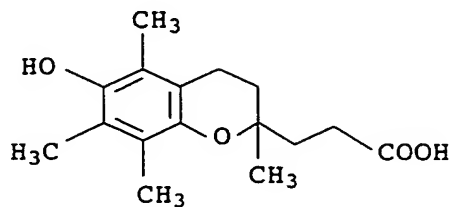


I

in which the substituents R^1 to R^5 have the meanings defined according to either claim 1 or 2.

29

10. A cosmetic preparation as claimed in claim 9, comprising a cosmetically effective amount of the compound of the formula Ia



Ia.

5

10

15

20

25

30

35

40

45

P. 653, 654